

## EAST Search History

| Ref # | Hits | Search Query   | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|------|--|---|------------------|---------|------------------|
| L14   | 306  | 335/217.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2006/11/10 18:17 |
| L15   | 1561 | wiggler undulator  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/11/10 18:18 |
| L16   | 1    | 14 and 15  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/11/10 18:18 |
| L17   | 13   | ("3325757"   "3325758"   "4266211").<br>PN. OR ("4456898").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR               | OFF     | 2006/11/10 18:27 |
| L18   | 7    | ("2309414"   "4182984"   "4456898"  <br>"5264813"   "5313061").PN. OR<br>("6403956").URPN.                                     | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR               | OFF     | 2006/11/10 18:29 |
| L19   | 1766 | 335/306.ccls. or 315/5.34.ccls. or<br>315/5.35.ccls. or 372/2.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2006/11/10 18:36 |
| L20   | 0    | ((wiggler or undulator) and<br>temperature and compensating and<br>steel).clm.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/11/10 18:38 |
| L21   | 0    | ((wiggler or undulator) and<br>temperature-compensating and steel).<br>clm.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/11/10 18:38 |
| L22   | 0    | ((wiggler or undulator) and<br>(temperature-compensating or<br>temperature or compensating or<br>compensation) and steel).clm. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/11/10 18:39 |

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|     |         |   |   |    |     |                  |
|-----|---------|---|---|----|-----|------------------|
| L23 | 9       | ((wiggler or undulator) and (temperature-compensating or temperature or compensating or compensation)).clm. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/11/10 18:39 |
| L24 | 9       | ((wiggler or undulator) and (temperature-compensating or temperature or compensating or compensation)).clm. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/11/10 18:39 |
| S1  | 1425    | wiggler undulator   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/11/10 18:18 |
| S2  | 4170413 | temperature   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/10/11 10:23 |
| S3  | 341     | S1 and S2   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/10/11 10:23 |
| S4  | 142778  | temperature near (dependence correction compensation variation)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/11/10 11:44 |
| S5  | 39      | S1 and S4   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/11/10 11:44 |
| S6  | 1716    | 335/306.ccls. or 315/5.34.ccls. or 315/5.35.ccls. or 372/2.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/11/10 18:29 |

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|     |    |  |   |    |     |                  |
|-----|----|--|---|----|-----|------------------|
| S7  | 29 | S4 and S6  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/10/11 10:35 |
| S8  | 28 | S7 not S5  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/10/11 10:35 |
| S9  | 1  | ("2002/0179830").URPN.   | USPAT   | OR | OFF | 2005/10/11 10:40 |
| S10 | 10 | ("5103200").URPN.  | USPAT   | OR | OFF | 2005/10/11 10:40 |
| S11 | 0  | ("2002/0158736").URPN.   | USPAT   | OR | OFF | 2005/10/11 10:41 |
| S12 | 28 | ("2305761"   "2883569"   "2895092"  <br>"3283200"   "3387241"   "3768054"  <br>"3781736"   "3831121"   "4153889"  <br>"4355236"   "4381490"   "4429229"  <br>"4538130"   "4549155"   "4633208"  <br>"4714908"   "4857841"   "4937545"  <br>"5003276"   "5010640"   "5021670"  <br>"5237301"   "5420556").PN. OR<br>("6573817").URPN. | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | OFF | 2005/10/11 10:41 |
| S13 | 8  | ("3398315"   "3755706"   "3958147"  <br>"4041349"   "4137482"   "4404494").<br>PN. OR ("4539512").URPN.  | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | OFF | 2005/10/11 10:45 |
| S14 | 9  | ("3325758").URPN.  | USPAT   | OR | OFF | 2005/10/11 10:47 |
| S15 | 2  | ("3215906").URPN.  | USPAT   | OR | OFF | 2005/10/11 10:47 |
| S16 | 13 | ("4549155"   "4714908"   "4727551"  <br>"4731598"   "4876687"   "4994778"  <br>"5010640"   "5014028"   "5099175").<br>PN. OR ("5420556").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | OFF | 2005/10/11 10:48 |
| S17 | 7  | ("3375452"   "4461004"   "4543655").<br>PN. OR ("5010640").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | OFF | 2005/10/11 10:50 |
| S18 | 7  | ("3227913"   "4104559"   "4283656"  <br>"4539512"   "4712293").PN. OR<br>("4820955").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | OFF | 2005/10/11 10:52 |
| S19 | 2  | ("4839059").PN.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/10/11 15:32 |

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|     |      |                      |   |    |     |                  |
|-----|------|----------------------|---|----|-----|------------------|
| S20 | 0    | ("leupold.in.").PN.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/10/11 15:32 |
| S21 | 0    | ("leupold.inv.").PN. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/10/11 15:32 |
| S22 | 649  | leupold.in.          | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/10/11 15:32 |
| S23 | 1425 | wiggler undulator    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/10/11 15:35 |
| S24 | 44   | S22 and S23          | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/10/11 15:33 |
| S25 | 42   | magic near sphere    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/10/11 15:45 |
| S26 | 10   | S23 and S25          | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/10/11 15:40 |
| S27 | 1    | S23 with S25         | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/10/11 15:40 |

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|     |    |   |   |    |     |                  |
|-----|----|---|---|----|-----|------------------|
| S28 | 46 | magic near sphere   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/10/11 15:46 |
| S29 | 1  | S23 with S28  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/10/11 15:45 |
| S30 | 92 | magic near ring   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/10/11 15:46 |
| S31 | 14 | S23 with S30  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/10/11 15:54 |
| S32 | 2  | ("5010640").PN.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/10/11 15:54 |
| S33 | 0  | ("("3215906" "3227913" "4539512" "4839059" "5010640" "5103200" "6573817").PN.").PN. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/03/10 15:14 |
| S34 | 0  | ("("3215906" "3227913" "4539512" "4839059" "5010640" "5103200" "6573817").PN.").PN. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/03/10 15:14 |
| S35 | 19 | ("3215906" "3227913" "4539512" "4839059" "5010640" "5103200" "6573817").PN.         | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/03/10 15:14 |

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|     |        |  |   |    |     |                  |
|-----|--------|--|---|----|-----|------------------|
| S36 | 1561   | wiggler undulator  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/11/10 11:57 |
| S37 | 154536 | temperature near (dependence<br>correction compensation variation) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/11/10 11:54 |
| S38 | 1561   | wiggler undulator  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/11/10 11:44 |
| S39 | 154536 | temperature near (dependence<br>correction compensation variation) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/11/10 11:44 |
| S40 | 44     | S38 and S39  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/11/10 11:58 |
| S41 | 9      | "5099175"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/11/10 11:48 |
| S42 | 2      | ("5099175").PN.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/11/10 11:52 |
| S43 | 201    | 372/2.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/11/10 11:53 |

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|     |         |                        |   |    |     |                  |
|-----|---------|------------------------|---|----|-----|------------------|
| S44 | 468     | 315/5.35.ccls.         | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/11/10 11:53 |
| S45 | 0       | S39 and S43            | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/11/10 11:53 |
| S46 | 5       | S39 and S44            | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/11/10 11:53 |
| S47 | 4439926 | temperature            | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/11/10 11:54 |
| S48 | 136777  | temperature with steel | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/11/10 11:55 |
| S49 | 0       | S43 and S48            | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/11/10 11:55 |
| S50 | 619496  | temperature and steel  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/11/10 11:55 |
| S51 | 5       | S43 and S50            | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/11/10 11:55 |

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|     |         |                     |   |    |     |                  |
|-----|---------|---------------------|---|----|-----|------------------|
| S52 | 387     | S36 and S47         | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/11/10 11:57 |
| S53 | 387     | S36 and S47         | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/11/10 11:57 |
| S54 | 343     | S53 not S40         | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/11/10 12:49 |
| S55 | 4950249 | heat heating heated | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/11/10 12:50 |
| S56 | 374     | S36 and S55         | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/11/10 12:50 |
| S57 | 140     | S56 not S53         | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/11/10 12:50 |